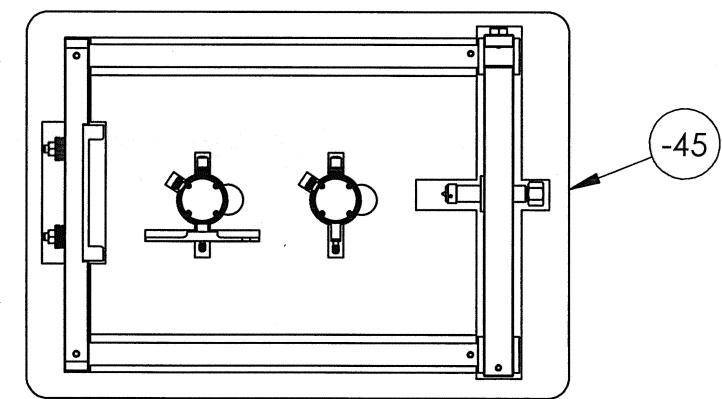
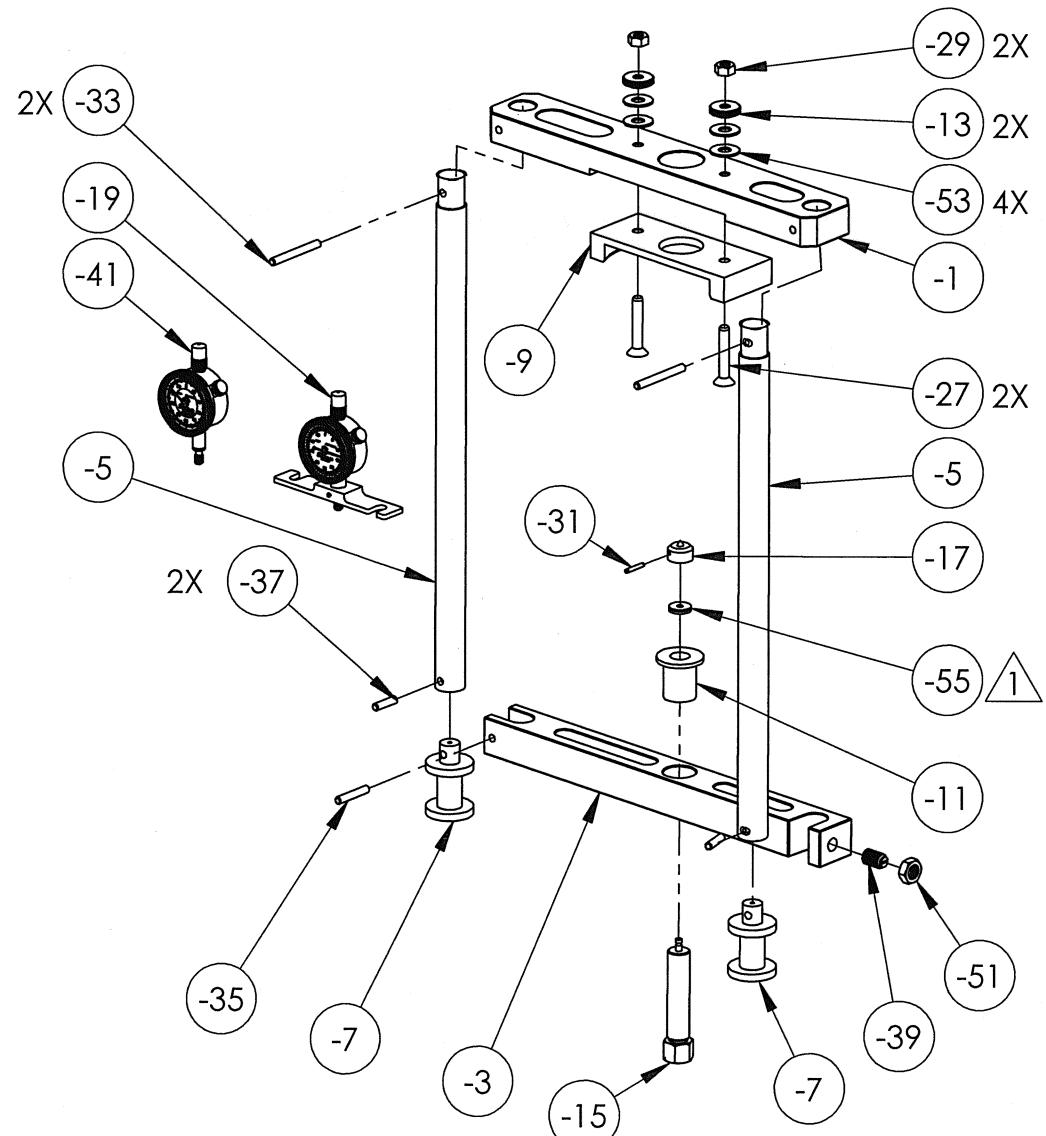


This drawing, specifications, and concepts contained here in are the sole property of Dart Aerospace, and may not be reproduced or used in any fashion without the prior written permission of Dart Aerospace Eugene, OR.

REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
C	19-733	<p>REMOVED ITEM -43</p> <p>-3 DIM WAS 1/4-28 UNF - 2B ∇ .50 IS 3/8-24 UNF ∇ .75</p> <p>-15 DIM WAS 3X .665 IS .665 HEX. ADDED 2X 30° AND 2X .03 DIMS</p> <p>-45 REMOVED CUTOUT FOR ITEM -43. MODIFIED CUTOUT LOCATIONS FOR ITEMS -19 AND -41. REMOVED ORDINATE DIMENSIONS FOR CUTOUTS</p>	20/08/2019	KPT	<i>[Signature]</i>



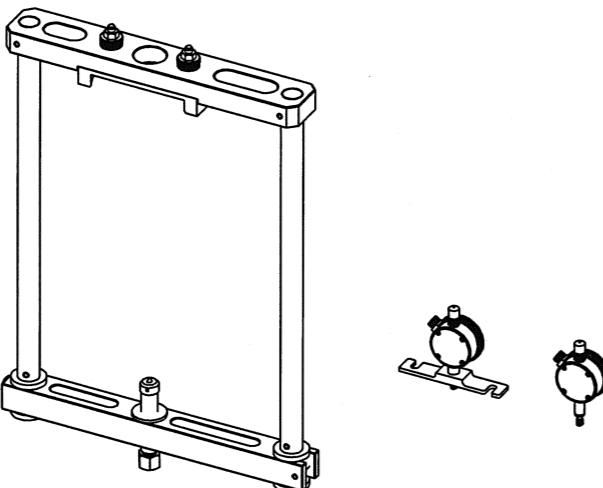
NOTE:

1 FOR THRUST BEARING -55 USE 1 WASHER ON -15 SIDE.

DART
AEROSPACE

TITLE		M/R DAMPER TOOL KIT	
DWG NO.		RBEL133M-6201-101	
REV		C	
MAT'L		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
HEAT		.XXX \pm .005 FRACTIONS \pm 1/8	
TREAT		.XX \pm .01 ANGLES \pm 5°	
FINISH		.X \pm .1 SURFACES = 125/	
SPEC		1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
DRAWN BY:		KPT	
CHECKED:		VM	
OPPS APPR:		2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
QA APPR:		3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
APPROVED:		USED ON MODEL	
SCALE		1:6	
DATE		20/08/2019	
SHEET 1 OF 14		EUROCOPTER	

This drawing, specifications, and concepts contained here in are the sole property of Dart Aerospace, and may not be reproduced or used in any fashion without the prior written permission of Dart Aerospace Eugene, OR.



ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
			-1	1	TOP RAIL	6061		3
			-3	1	BOTTOM RAIL	6061		4
			-5	2	ROD	6061		5
			-7	2	ROD END	6061		6
			-9	1	WEAR PAD	WHITE DELRIN/ACETAL		7
			-11	1	BUSHING	303 / 304		8
	B/O	-13	2	THUMB NUT	STEEL	1/4-20 (MCMASTER-CARR #92815A115)		1
		-15	1	FORCING SCREW	4140/4142			9
		-17	1	SCREW CAP	4140/4142			10
X	B/O	-19	1	DIAL INDICATOR ASSY.				11
1		-21	1	BASE	4140/4142			12
1	B/O	-23	1	SET SCREW	S.S SILVER TIP	6-32 X 1/8 (MCMASTER-CARR #99934A330)		11
1	B/O	-25	1	DIAL INDICATOR		(MOTION INDUSTRIES #81-231J W/FBS)		11
	B/O	-27	2	SCREW	STEEL	1/4-20 X 1-1/2 (MCMASTER-CARR #91263A564)		1
	B/O	-29	2	NUT	STEEL	1/4-20 (MCMASTER-CARR #94895A029)		1
	B/O	-31	1	SPRING PIN	STEEL	Ø1/16 X 5/8 (MCMASTER-CARR #90692A090)		1
	B/O	-33	2	DOWEL PIN	STEEL	3/16 X 1-3/4 (MCMASTER-CARR #98381A515)		1
	B/O	-35	1	DOWEL PIN	STEEL	3/16 X 1-1/8 (MCMASTER-CARR #98381A511)		1
	B/O	-37	2	DOWEL PIN	STEEL	3/16 X 3/4 (MCMASTER-CARR #98381A508)		1
	B/O	-39	1	BALL-NOSE SPRING PLUNGER	STEEL	3/8-24 X 5/8 (MCMASTER-CARR #3408A551)		1
	B/O	-41	1	DIAL INDICATOR		(MOTION INDUSTRIES #81-281J-8 W/FBS)		1
	B/O	-45	1	BOTTOM TOOL CUSHION	ETHAFOAM 220, BLACK	4.98 X 12.83 X 18.00 (CASE SOLUTIONS)		13
	B/O	-47	1	TOP TOOL CUSHION	ETHAFOAM 220, BLACK	1.79 X 12.77 X 17.94 (CASE SOLUTIONS)		14
	B/O	-49	1	CASE	PLASTIC	PELICAN #APP-1520-E	NS	DRAWN BY: KPT
	B/O	-51	1	THIN HEX NUT	STEEL	3/8-24 (MCMASTER-CARR #94846A515)	1	CHECKED: VM
	B/O	-53	4	WASHER	STEEL	Ø1/4 (MCMASTER-CARR #90108A413)	1	OPPS APPR:
	B/O	-55	1	THRUST BEARING		M14 OD MISUMI #BA0414	1	QA APPR:
ASSY -19								USED ON MODEL
								APPROVED: EUROCOPTER
							SCALE 1:6	DATE 20/08/2019
								SHEET 2 OF 14

DART
AEROSPACE

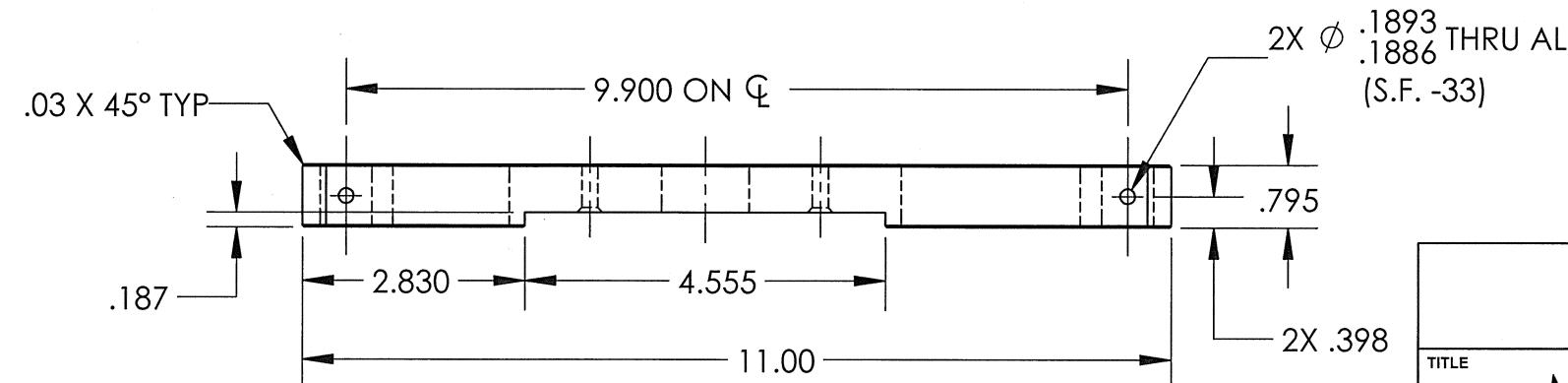
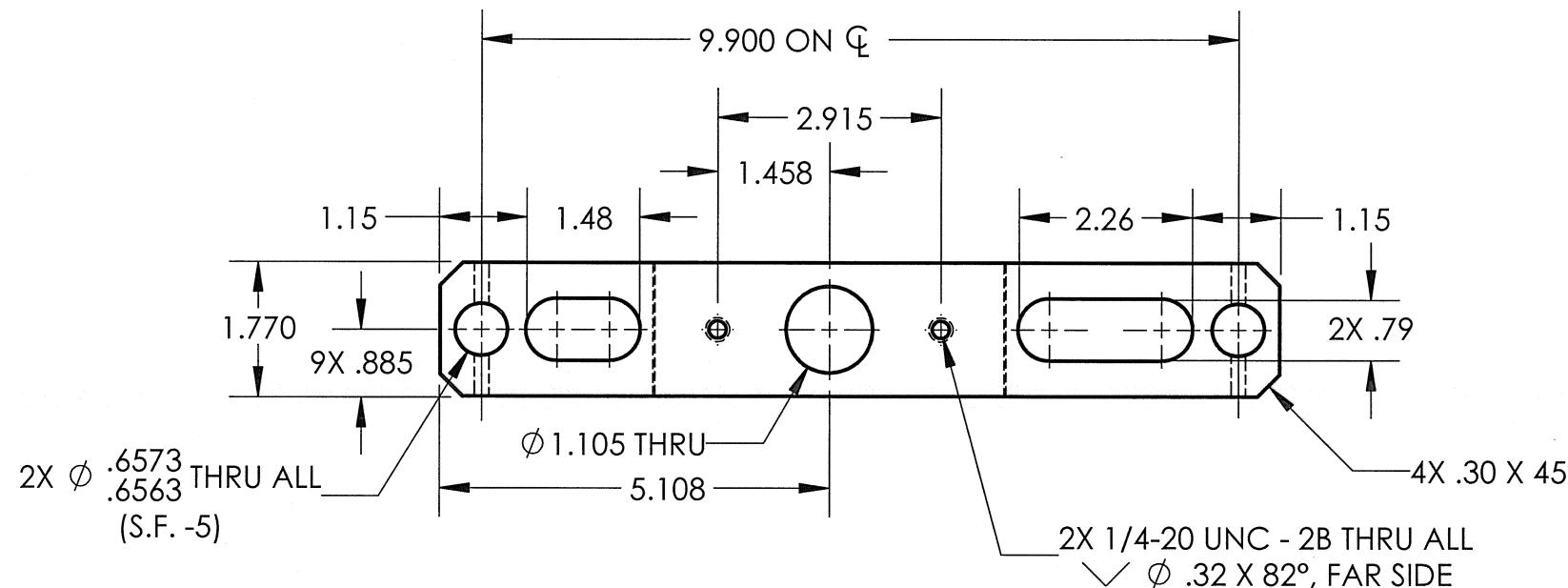
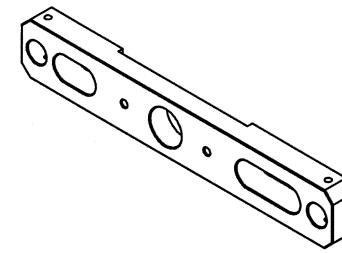
M/R DAMPER TOOL KIT

RBEL133M-6201-101

REV C

MAT'L	UNLESS OTHERWISE SPECIFIED
HEAT	DIMENSIONS ARE IN INCHES
TREAT	.XXX ± .005 FRACTIONS ± 1/8
FINISH	.XX ± .01 ANGLES ± .5°
SPEC	.X ± .1 SURFACES = 125/V
	1. BREAK ALL SHARP EDGES
	.015 x 45° OR. 015R
	2. DIMENSIONAL LIMITS APPLY
	AFTER PLATING
	3. INTERPRET DIM AND TOL PER
	ASME Y14.5M-2009
DRAWN BY:	KPT
CHECKED:	VM
OPPS APPR:	
QA APPR:	USED ON MODEL
APPROVED:	EUROCOPTER
SCALE 1:6	DATE 20/08/2019
	SHEET 2 OF 14

This drawing, specifications, and concepts contained here in are the sole property of Dart Aerospace, and may not be reproduced or used in any fashion without the prior written permission of Dart Aerospace Eugene, OR.

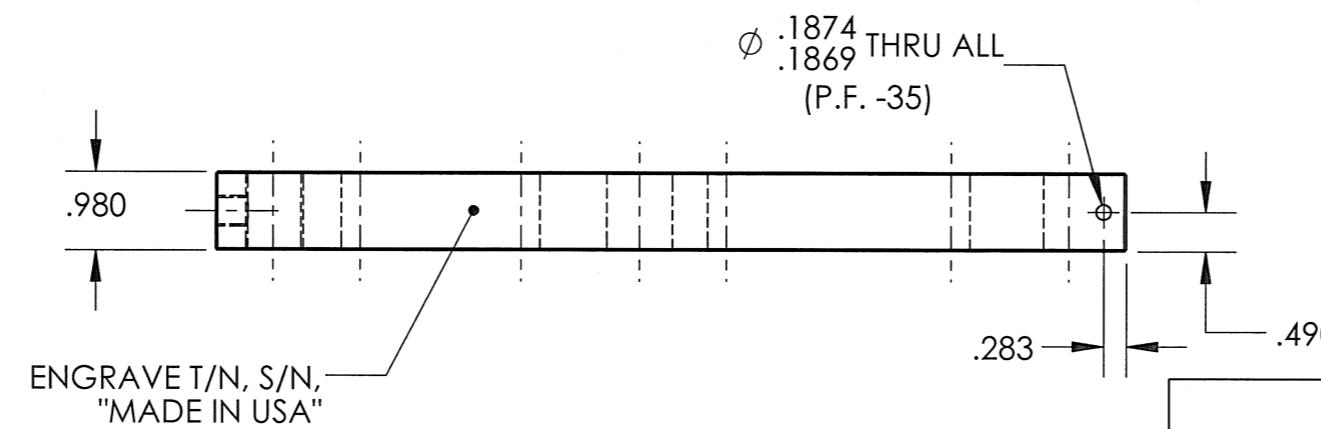
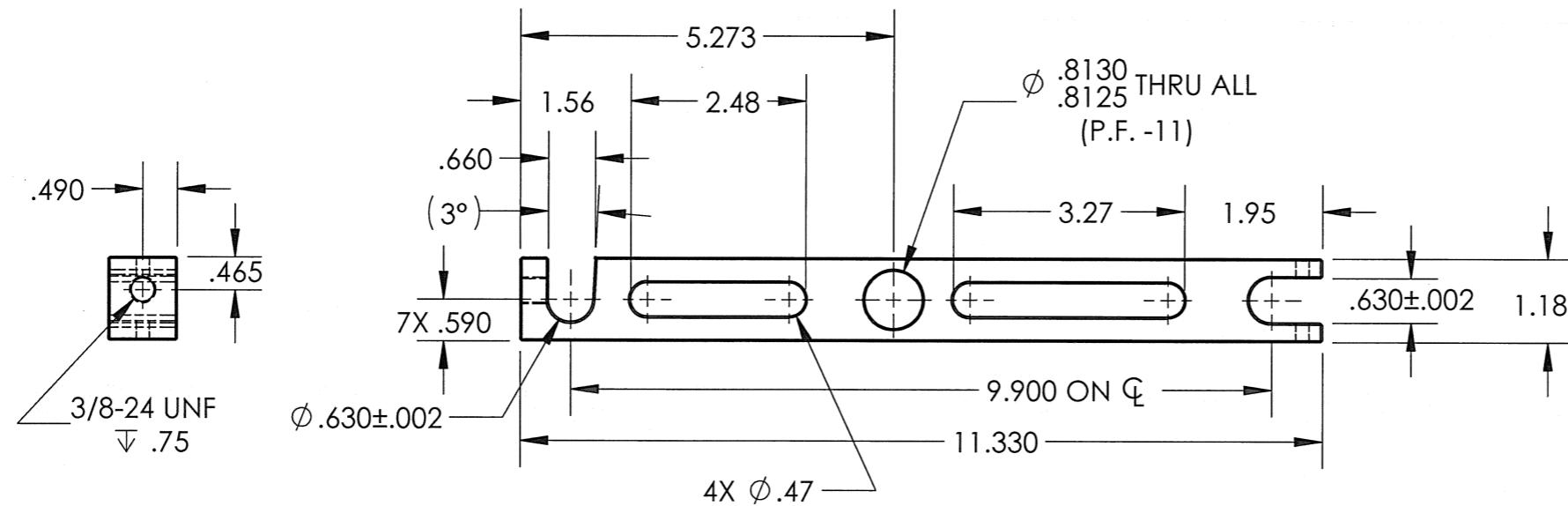
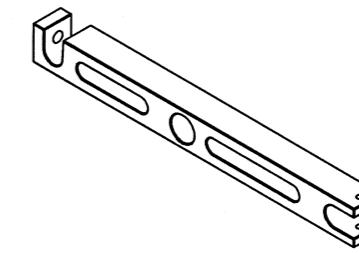


(-1)

TOP RAIL

DART AEROSPACE																							
TITLE																							
M/R DAMPER TOOL KIT																							
DWG NO. RBEL133M-6201-101-1 REV C																							
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">MATERIAL 6061</td> <td style="width: 50%;">UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES</td> </tr> <tr> <td>HEAT</td> <td>XXX ± .005 FRACTIONS ± 1/8</td> </tr> <tr> <td>TREAT</td> <td>XX ± .01 ANGLES ± .5°</td> </tr> <tr> <td>FINISH</td> <td>X ± .1 SURFACES = 125 /</td> </tr> <tr> <td>SPEC</td> <td>1. BREAK ALL SHARP EDGES</td> </tr> <tr> <td>MIL-A-8625F, TYPE II, CLASS I</td> <td>.015 x 45° OR .015R</td> </tr> <tr> <td>DRAWN BY: KPT</td> <td>2. DIMENSIONAL LIMITS APPLY AFTER PLATING</td> </tr> <tr> <td>CHECKED: VM</td> <td>3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009</td> </tr> <tr> <td>OPPS APPR:</td> <td>USED ON MODEL</td> </tr> <tr> <td>QA APPR:</td> <td>EUROCOPTER</td> </tr> <tr> <td>APPROVED:</td> <td>SCALE 1:3 DATE 20/08/2019 SHEET 3 OF 14</td> </tr> </table>		MATERIAL 6061	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	HEAT	XXX ± .005 FRACTIONS ± 1/8	TREAT	XX ± .01 ANGLES ± .5°	FINISH	X ± .1 SURFACES = 125 /	SPEC	1. BREAK ALL SHARP EDGES	MIL-A-8625F, TYPE II, CLASS I	.015 x 45° OR .015R	DRAWN BY: KPT	2. DIMENSIONAL LIMITS APPLY AFTER PLATING	CHECKED: VM	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	OPPS APPR:	USED ON MODEL	QA APPR:	EUROCOPTER	APPROVED:	SCALE 1:3 DATE 20/08/2019 SHEET 3 OF 14
MATERIAL 6061	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES																						
HEAT	XXX ± .005 FRACTIONS ± 1/8																						
TREAT	XX ± .01 ANGLES ± .5°																						
FINISH	X ± .1 SURFACES = 125 /																						
SPEC	1. BREAK ALL SHARP EDGES																						
MIL-A-8625F, TYPE II, CLASS I	.015 x 45° OR .015R																						
DRAWN BY: KPT	2. DIMENSIONAL LIMITS APPLY AFTER PLATING																						
CHECKED: VM	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009																						
OPPS APPR:	USED ON MODEL																						
QA APPR:	EUROCOPTER																						
APPROVED:	SCALE 1:3 DATE 20/08/2019 SHEET 3 OF 14																						

This drawing, specifications, and concepts contained here in are the sole property of Dart Aerospace, and may not be reproduced or used in any fashion without the prior written permission of Dart Aerospace Eugene, OR.

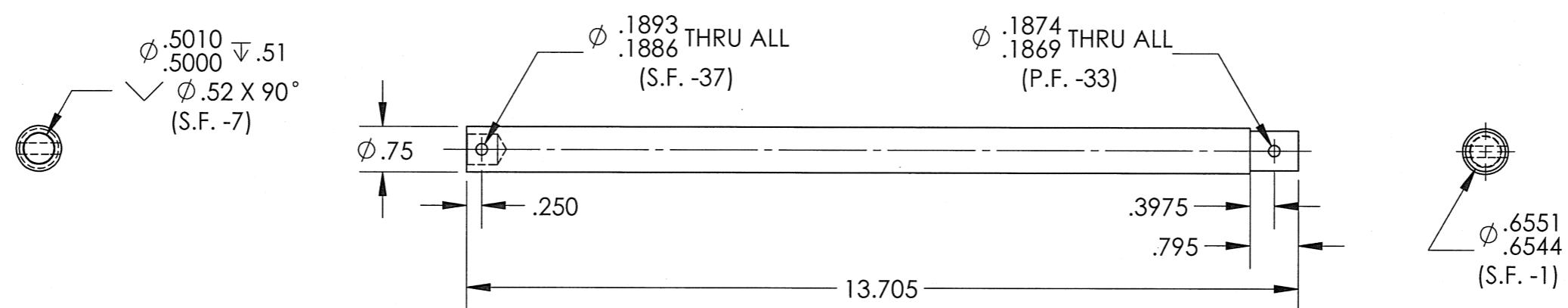
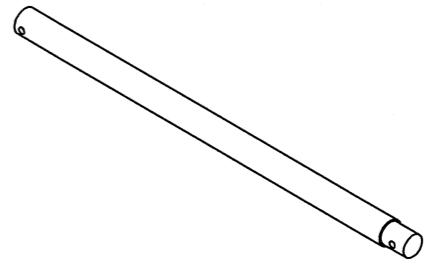


DART AEROSPACE	
TITLE	
M/R DAMPER TOOL KIT	
DWG NO. RBEL133M-6201-101-3	
REV C	
MAT'L 6061 HEAT TREAT FINISH CLEAR ANODIZE SPEC MIL-A-8625F, TYPE II, CLASS I DRAWN BY: KPT CHECKED: VM OPPS APPR: QA APPR: APPROVED:	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ± .5° .X ± .1 SURFACES = 125 ✓ 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009 USED ON MODEL EUROCOPTER	
SCALE 1:3	DATE 20/08/2019
SHEET 4 OF 14	

(-3)

BOTTOM RAIL

This drawing, specifications, and concepts contained here in are the sole property of Dart Aerospace, and may not be reproduced or used in any fashion without the prior written permission of Dart Aerospace Eugene, OR.

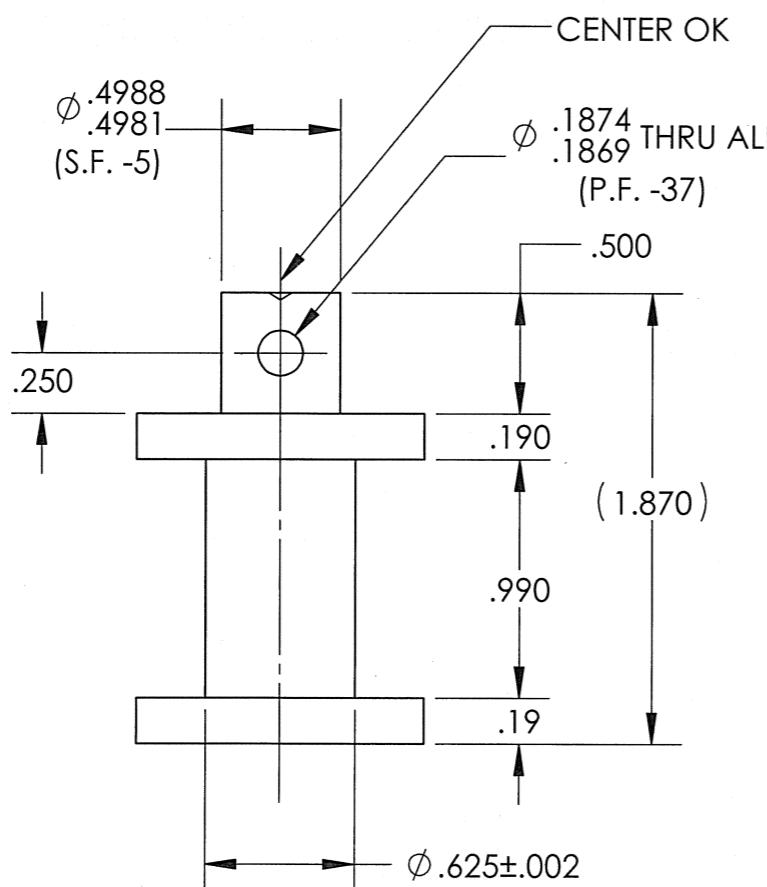
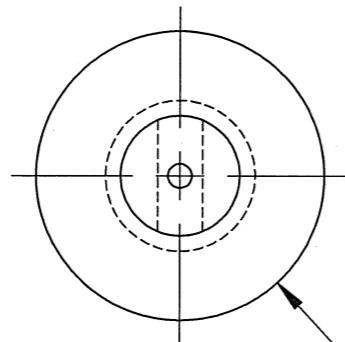


(-5)

ROD

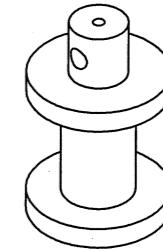
DART AEROSPACE	
TITLE	
DWG NO. RBEL133M-6201-101-5 REV C	
MAT'L 6061 HEAT TREAT FINISH CLEAR ANODIZE SPEC MIL-A-8625F, TYPE II, CLASS I DRAWN BY: KPT CHECKED: VM OPPS APPR: QA APPR: APPROVED:	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ± .5° .X ± .1 SURFACES = 125 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009 USED ON MODEL EUROCOPTER	
SCALE 1:3	DATE 20/08/2019
SHEET 5 OF 14	

This drawing, specifications, and concepts contained here in are the sole property of Dart Aerospace, and may not be reproduced or used in any fashion without the prior written permission of Dart Aerospace Eugene, OR.



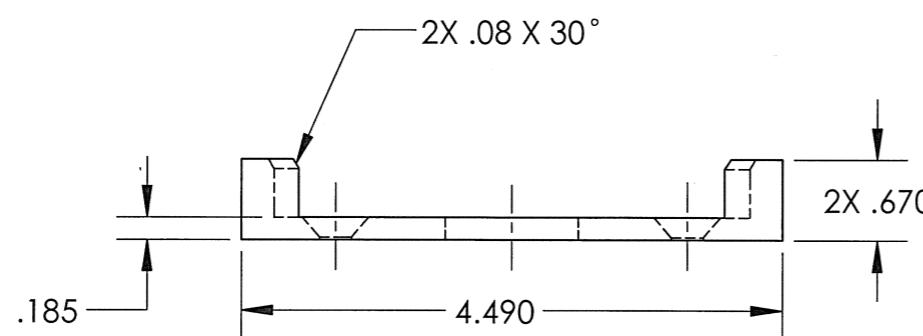
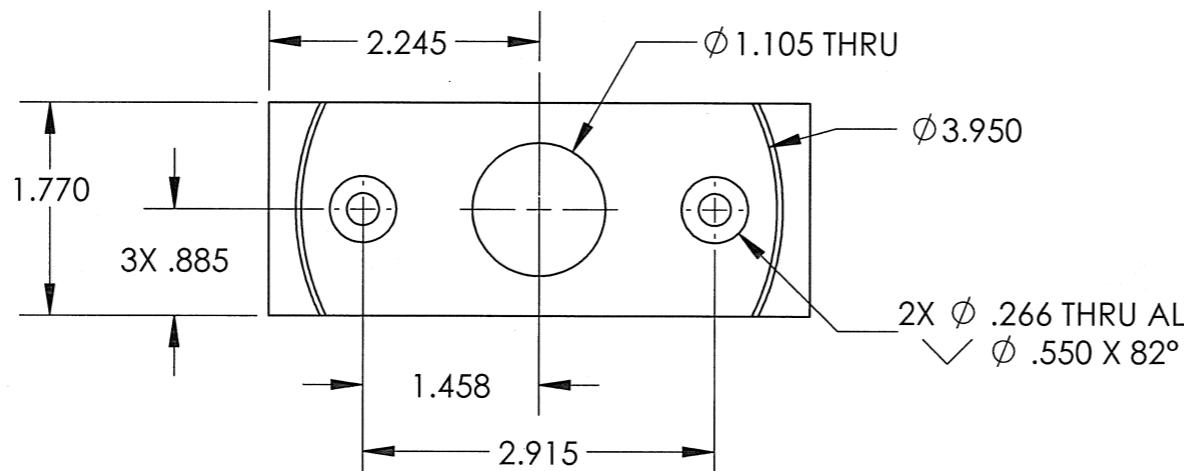
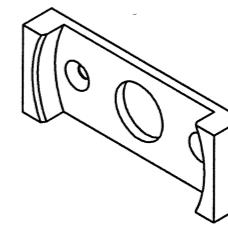
(-7)

ROD END



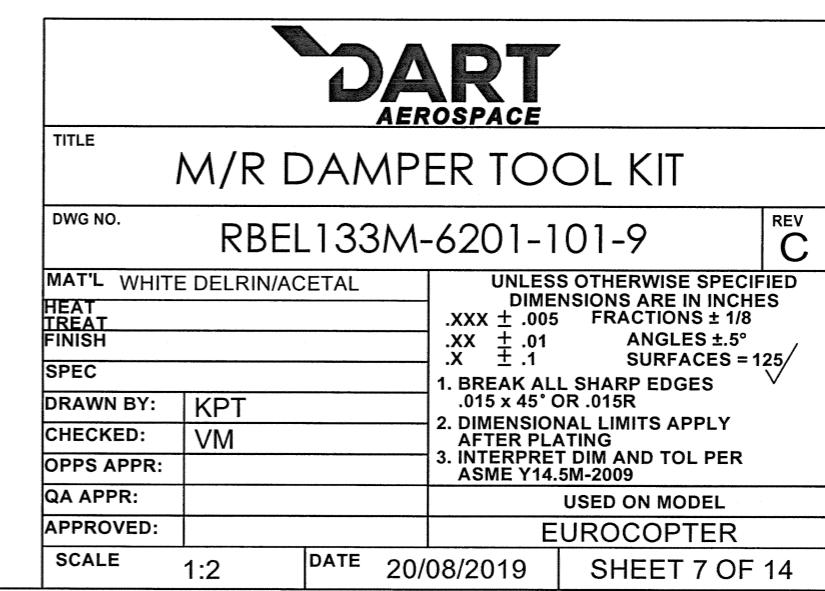
DART AEROSPACE	
TITLE	
M/R DAMPER TOOL KIT	
DWG NO. RBEL133M-6201-101-7 REV C	
MAT'L 6061 UNLESS OTHERWISE SPECIFIED HEAT DIMENSIONS ARE IN INCHES TREAT .XXX ± .005 FRACTIONS ± 1/8 FINISH .XX ± .01 ANGLES ± .5° SPEC .X ± .1 SURFACES = 125 MIL-A-8625F, TYPE II, CLASS I ✓ 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
DRAWN BY: KPT USED ON MODEL	
CHECKED: VM APPROVED: EUROCOPTER	
QA APPR:	SCALE 1:1 DATE 20/08/2019 SHEET 6 OF 14
OPPS APPR:	
QA APPR:	
APPROVED:	
SCALE 1:1	DATE 20/08/2019
SHEET 6 OF 14	

This drawing, specifications, and concepts contained here in are the sole property of Dart Aerospace, and may not be reproduced or used in any fashion without the prior written permission of Dart Aerospace Eugene, OR.

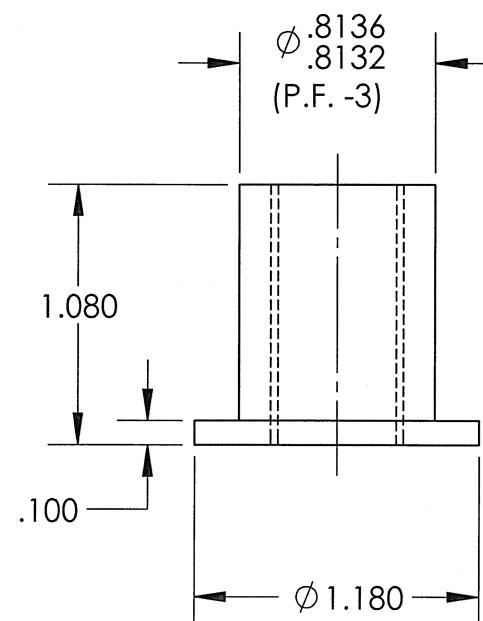
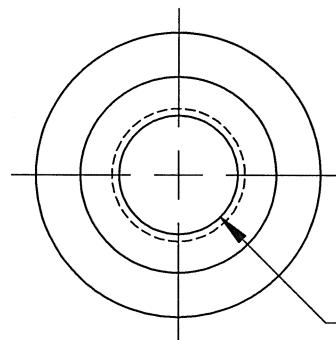


-9

WEAR PAD

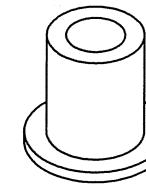


This drawing, specifications, and concepts contained here in are the sole property of Dart Aerospace, and may not be reproduced or used in any fashion without the prior written permission of Dart Aerospace Eugene, OR.



(-11)

BUSHING



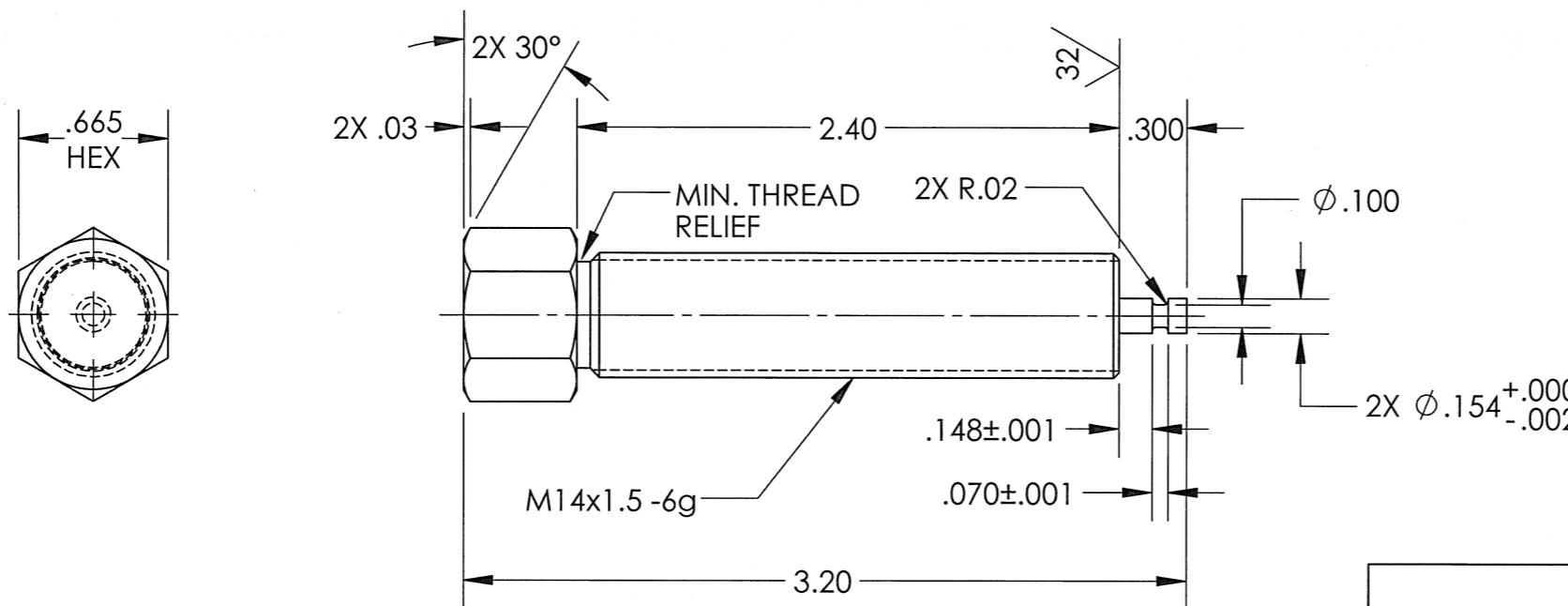
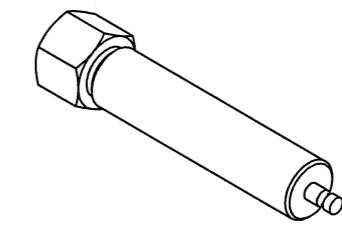
DART AEROSPACE	
TITLE	
M/R DAMPER TOOL KIT	
DWG NO. RBEL133M-6201-101-11 REV C	
MAT'L 303 / 304	
HEAT .XXX ± .005 FRACTIONS ± 1/8	
TREAT .XX ± .01 ANGLES ± .5°	
FINISH .X ± .1 SURFACES = 125	
SPEC	
DRAWN BY: KPT	
CHECKED: VM	
OPPS APPR:	
QA APPR: USED ON MODEL	
APPROVED: EUROCOPTER	
SCALE 1:1	DATE 20/08/2019
SHEET 8 OF 14	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES

.XXX ± .005 FRACTIONS ± 1/8
.XX ± .01 ANGLES ± .5°
.X ± .1 SURFACES = 125

1. BREAK ALL SHARP EDGES
.015 x 45° OR .015R
2. DIMENSIONAL LIMITS APPLY
AFTER PLATING
3. INTERPRET DIM AND TOL PER
ASME Y14.5M-2009

This drawing, specifications, and concepts contained here in are the sole property of Dart Aerospace, and may not be reproduced or used in any fashion without the prior written permission of Dart Aerospace Eugene, OR.



-15

FORCING SCREW

DART
AEROSPACE

M/R DAMPER TOOL KIT

TITLE

RBEL133M-6201-101-15

REV C

MAT'L 4140/4142

UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES

.XXX ± .005 FRACTIONS ± 1/8

.XX ± .01 ANGLES ± .5°

.X ± .1 SURFACES = 125

✓

1. BREAK ALL SHARP EDGES

.015 x 45° OR .015R

2. DIMENSIONAL LIMITS APPLY

AFTER PLATING

3. INTERPRET DIM AND TOL PER

ASME Y14.5M-2009

QA APPR:

USED ON MODEL

APPROVED:

EUROCOPTER

SCALE

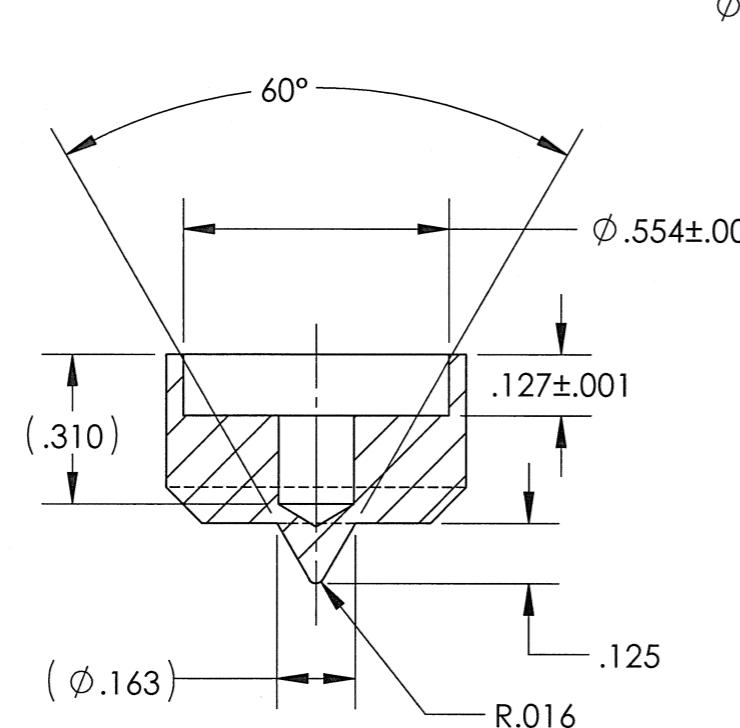
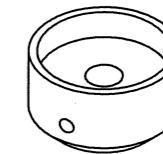
1:1

DATE

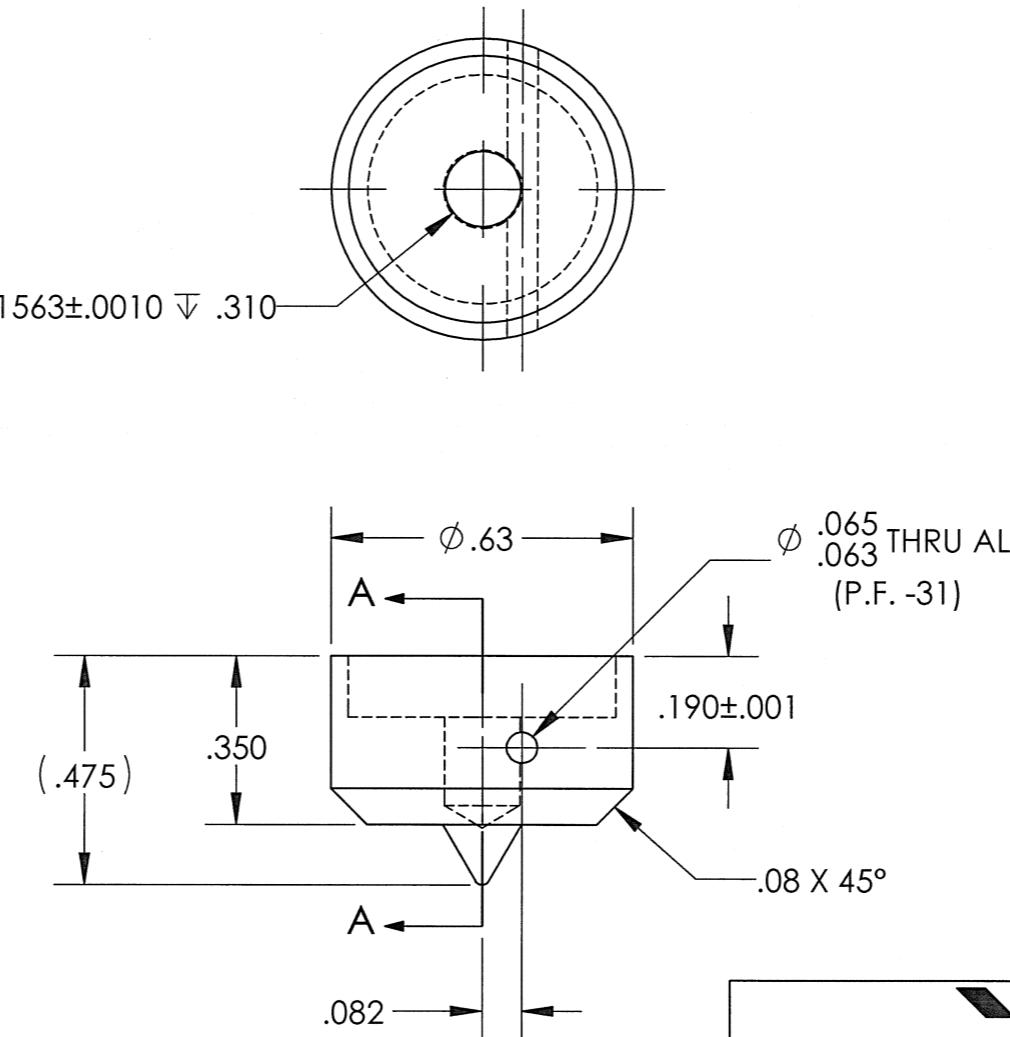
20/08/2019

SHEET 9 OF 14

This drawing, specifications, and concepts contained here in are the sole property of Dart Aerospace, and may not be reproduced or used in any fashion without the prior written permission of Dart Aerospace Eugene, OR.



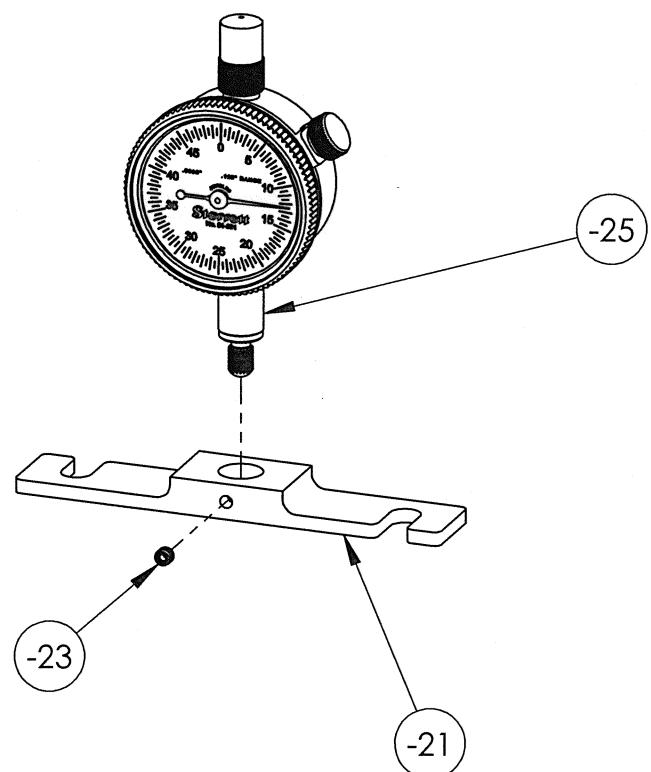
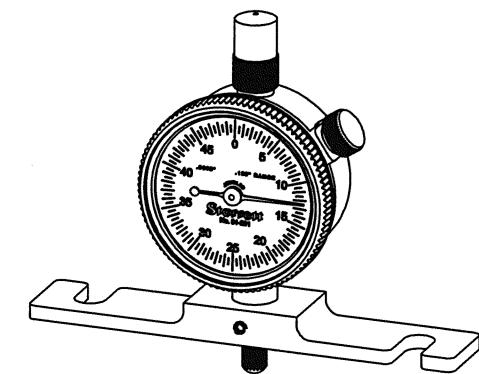
SECTION A-A



-17
SCREW CAP

DART AEROSPACE	
TITLE	
M/R DAMPER TOOL KIT	
DWG NO. RBEL133M-6201-101-17	
REV C	
MAT'L 4140/4142 HEAT TREAT RC 28-34 FINISH BLACK OXIDE SPEC QMSI-6.2.2, B.O. REV D DRAWN BY: KPT CHECKED: VM OPPS APPR: QA APPR: USED ON MODEL APPROVED: EUROCOPTER	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ± .5° .X ± .1 SURFACES = 125 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
SCALE 2:1	DATE 20/08/2019
SHEET 10 OF 14	

This drawing, specifications, and concepts contained here in are the sole property of Dart Aerospace, and may not be reproduced or used in any fashion without the prior written permission of Dart Aerospace Eugene, OR.

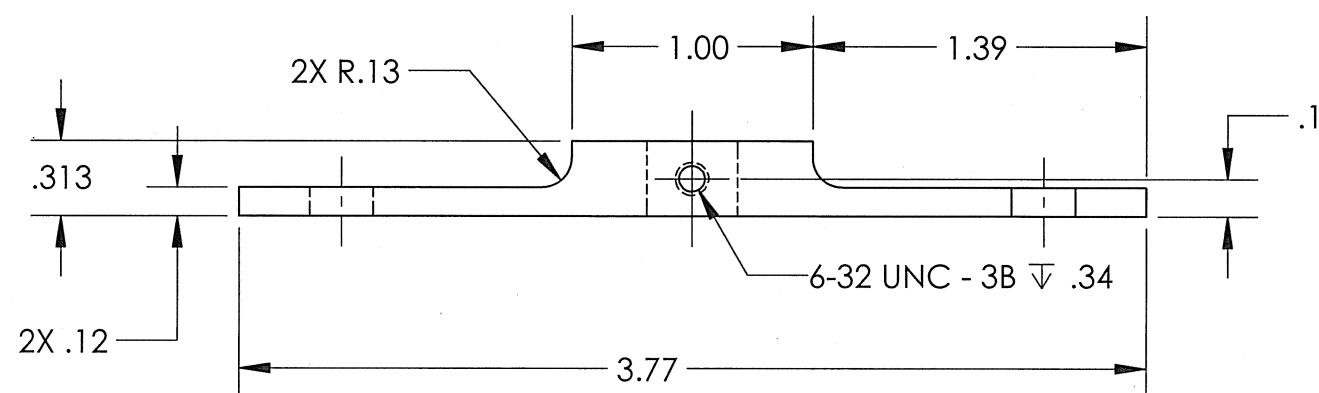
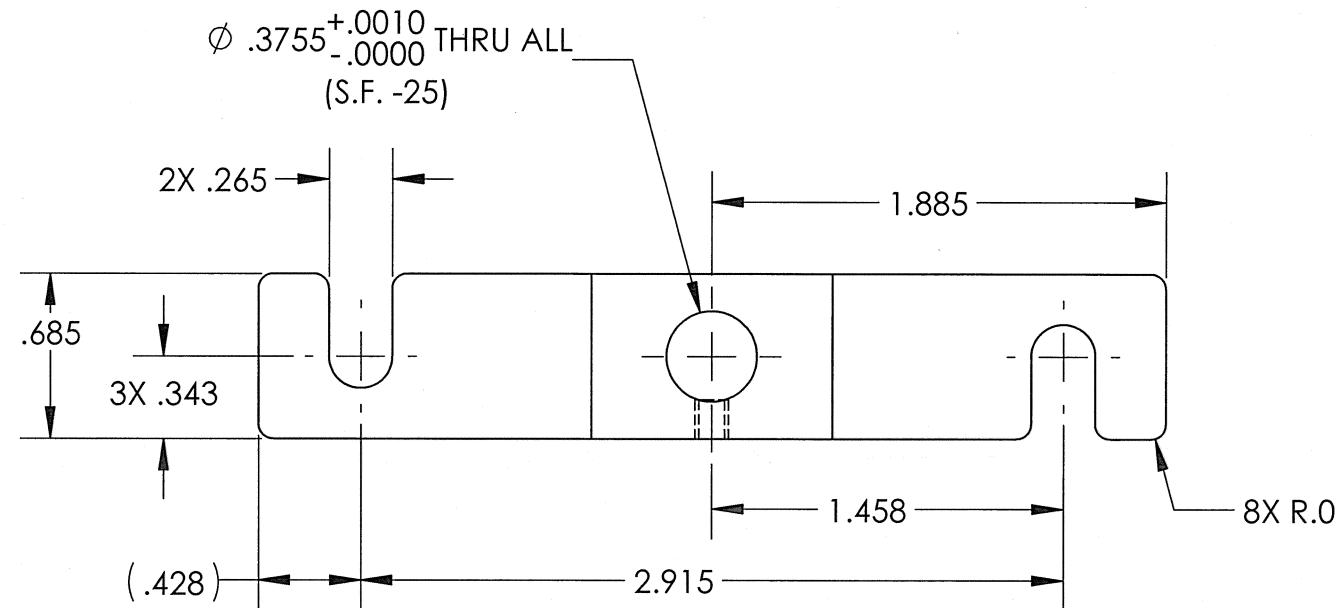
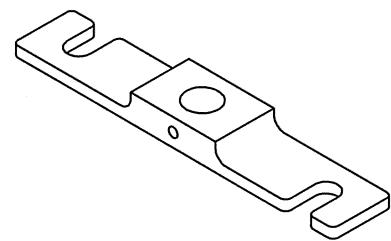


-19

DIAL INDICATOR ASSY

DART AEROSPACE	
TITLE	
DWG NO. RBEL133M-6201-101-19 REV C	
MAT'L HEAT TREAT FINISH SPEC DRAWN BY: KPT CHECKED: VM OPPS APPR: QA APPR: APPROVED:	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 XX ± .01 ANGLES ± .5° X ± .1 SURFACES = 125 ✓ 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009 USED ON MODEL EUROCOPTER	
SCALE 1:2	DATE 20/08/2019
SHEET 11 OF 14	

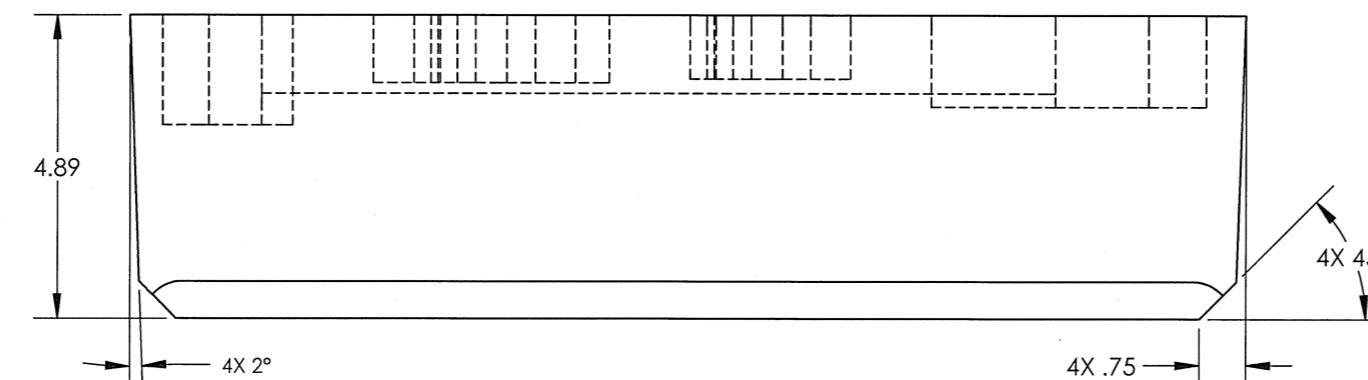
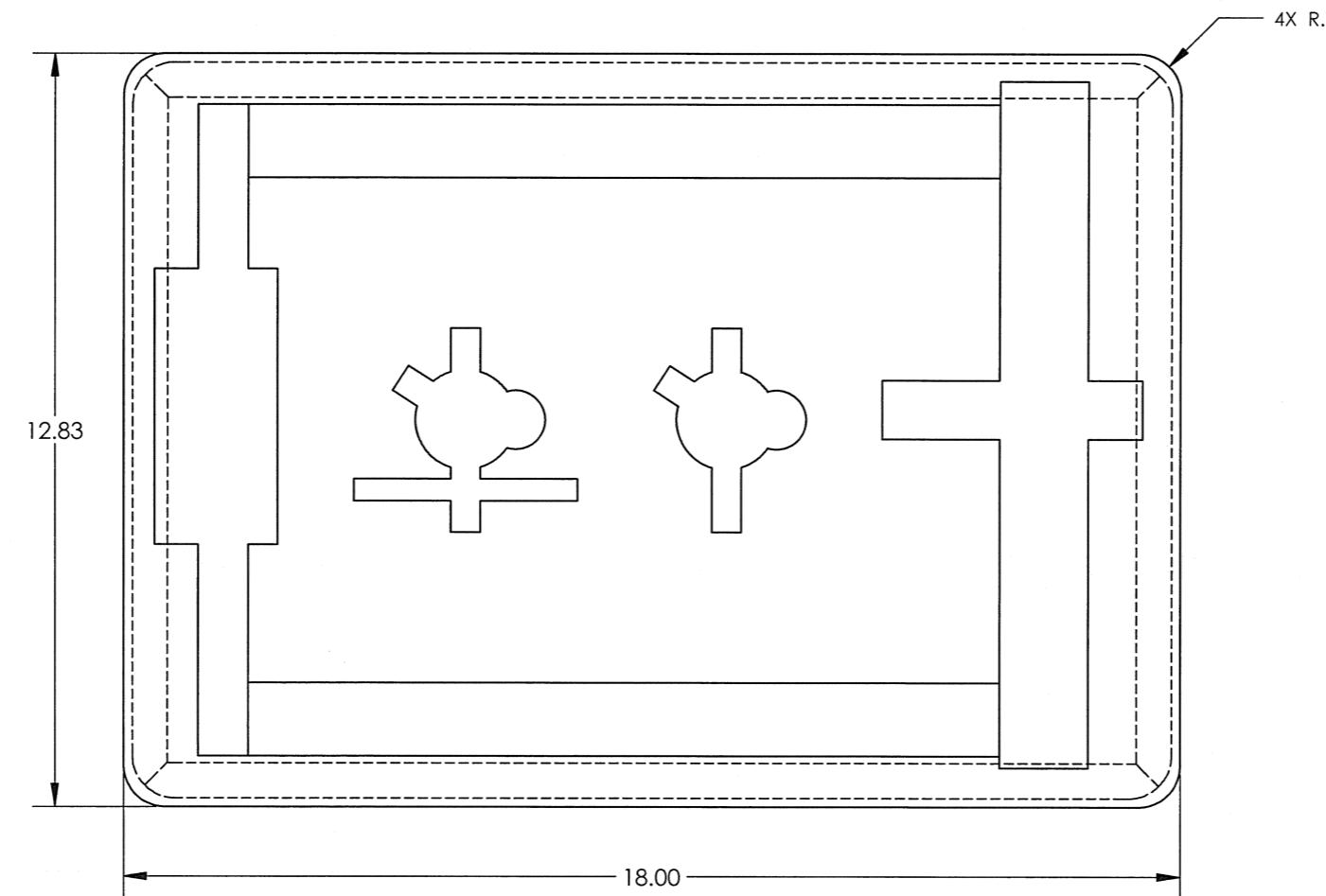
This drawing, specifications, and concepts contained here in are the sole property of Dart Aerospace, and may not be reproduced or used in any fashion without the prior written permission of Dart Aerospace Eugene, OR.



(-21)

BASE

DART AEROSPACE	
TITLE	
M/R DAMPER TOOL KIT	
DWG NO. RBEL133M-6201-101-21 REV C	
MAT'L 4140/4142 HEAT TREAT RC 28-34 FINISH BLACK OXIDE SPEC QMSI-6.2.2, B.O. REV D DRAWN BY: KPT CHECKED: VM OPPS APPR: QA APPR: APPROVED:	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ± .5° X ± .1 SURFACES = 125 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009 USED ON MODEL EUROCOPTER	
SCALE 1:1	DATE 20/08/2019
SHEET 12 OF 14	

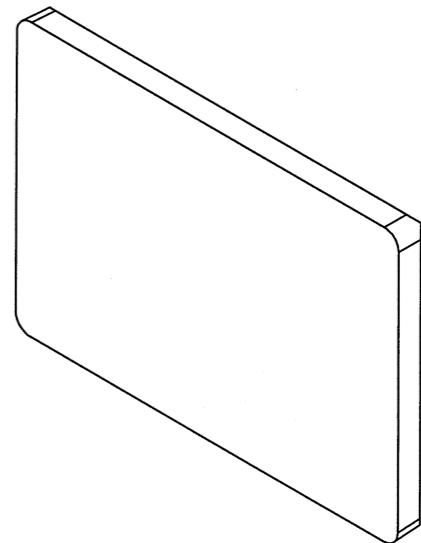
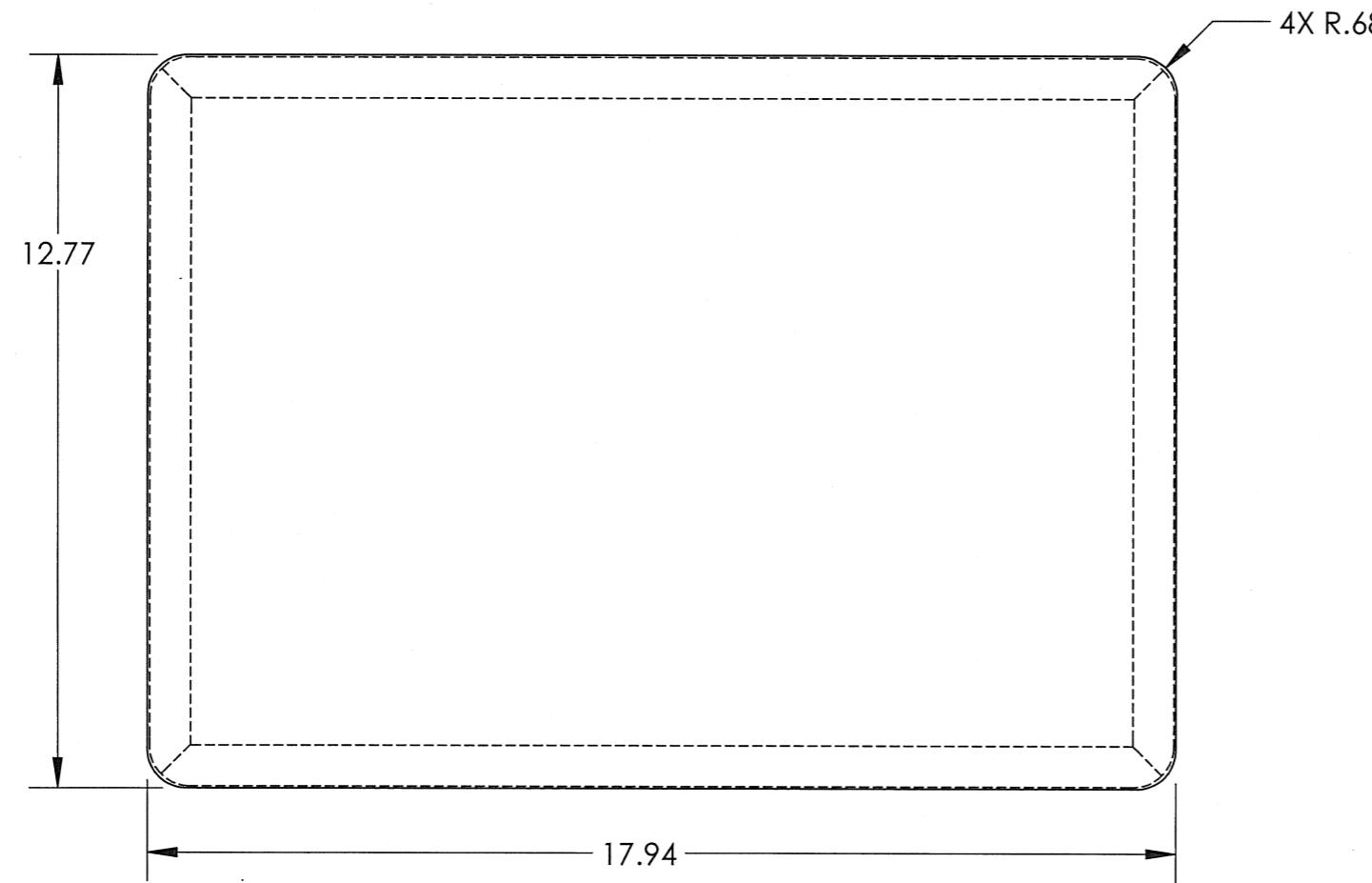


(-45)
BOTTOM TOOL CUSHION

NOTE:
ALL NON-DIMENSIONED FEATURES MUST
MAINTAIN A TOLERANCE OF +/- 0.050" PER CAD
FILE RBEL133M-6201-101-45 REV. C.STEP

DART AEROSPACE	
TITLE M/R DAMPER TOOL KIT	
DWG NO. RBEL133M-6201-101-45 REV C	
MATERIAL ETHAFOAM 220, BLACK	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
.000 ± .010 FRACTIONS ± 1/8	
.000 ± .03 ANGLES ± 1°	
.000 ± .1 SURFACES = 125	
SPEC	
1. BREAK ALL SHARP EDGES	
.015 x 45° OR .015R	
2. DIMENSIONAL LIMITS APPLY	
AFTER PLATING	
3. INTERPRET DIM AND TOL PER	
ASME Y14.5M-2009	
DRAWN BY: KPT	
CHECKED: VM	
OPPS APPR:	
QA APPR: USED ON MODEL	
APPROVED: EUROCOPTER	
SCALE 1:3	DATE 20/08/2019
SHEET 13 OF 14	

This drawing, specifications, and concepts contained here in are the sole property of Dart Aerospace, and may not be reproduced or used in any fashion without the prior written permission of Dart Aerospace Eugene, OR.



-47

TOP TOOL CUSHION

DART AEROSPACE	
TITLE	
M/R DAMPER TOOL KIT	
DWG NO. RBEL133M-6201-101-47 REV C	
MAT'L ETHAFOAM 220, BLACK UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
HEAT .XXX ± .010 FRACTIONS ± 1/8 TREAT .XX ± .03 ANGLES ± 1° FINISH .X ± .1 SURFACES = 125	
SPEC 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
DRAWN BY:	KPT
CHECKED:	VM
OPPS APPR:	
QA APPR:	USED ON MODEL
APPROVED:	EUROCOPTER
SCALE	1:4
DATE	20/08/2019
SHEET 14 OF 14	